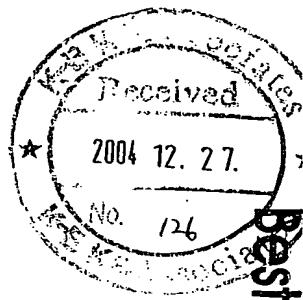


PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



Applicant's or agent's file reference <b>AZ03-356WOWM</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/KR 2004/002597</b>	(Earliest) Priority Date (day/month/year) <b>16 October 2003 (16.10.2003)</b>	International filing date (day/month/year) <b>12 October 2004 (12.10.2004)</b>
Applicant <b>LG ELECTRONICS INC.</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a.  With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
  - The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see continuation of this first sheet.

2.  Certain claims were found unsearchable (see continuation of this first sheet)

3.  Unity of invention is lacking (see continuation of this first sheet)

4. With regard to the title,
 

- the text is approved as submitted by the applicant.
- the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- the text is approved as submitted by the applicant.
- the text has been established, according to Rule 38.2(b), by this Authority as it appears in the continuation of this first sheet. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 7
  - as suggested by the applicant.
  - as selected by this Authority, because the applicant failed to suggest a figure.
  - as selected by this Authority, because this figure better characterizes the invention.
- b.  none of the figures is to be published with the abstract.

Best Available Copy

**Continuation of first sheet****Continuation No. IV:****Text of the abstract****(Continuation of item 5 of the first sheet)**

Microwave oven including a body (100) forming an outer appearance, an inner case (110) in the body (100), having a cooking chamber (110a) formed therein, an outfit room (150) at one side of the inner case (110), having various electric parts, such as a magnetron (170), a high voltage transformer (180), mounted therein, and a convection assembly (200) mounted at a side of the inner case (110), for transmitting heat to the cooking chamber (110a) thereby providing an excellent performance even with a small size.

---

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 2004/002597

## A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup>: H05B 6/64; F24C 7/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup>: F24C 7/02; H05B 6&64

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EPODOC, PAJ, WPI

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 334 871 A (SAMSUNG ELECTRONICS CO, LTD) 1 September 1999 (01.09.1999) <i>abstract, page 4, lines 1 to 14, claims, figures 1, 3.</i>	1
A	EP 0 965 797 A1 (SAMSUNG ELECTRONICS CO, LTD) 22 December 1999 (22.12.1999) <i>abstract, claims, figure 5.</i>	1, 10, 11, 14, 15, 20
X	EP 0 747 638 A1 (SAMSUNG ELECTRONICS CO, LTD) 11 December 1996 (11.12.1996) <i>abstract, column 4, line 41 to column 5, line 7, column 6, lines 9 to 40, claims, figures 3, 5-10.</i>	1

 Further documents are listed in the continuation of Box C. See patent family annex.

- \* Special categories of cited documents:
- “A” document defining the general state of the art which is not considered to be of particular relevance
- “E” earlier application or patent but published on or after the international filing date
- “L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- “O” document referring to an oral disclosure, use, exhibition or other means
- “P” document published prior to the international filing date but later than the priority date claimed

- “T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- “X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- “Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- “&” document member of the same patent family

Date of the actual completion of the international search  
29 November 2004 (29.11.2004)Date of mailing of the international search report  
17 December 2004 (17.12.2004)Name and mailing address of the ISA/ AT  
**Austrian Patent Office**  
Dresdner Straße 87, A-1200 Vienna  
Facsimile No. +43 / 1 / 534 24 / 535Authorized officer  
**ERBER H.**  
Telephone No. +43 / 1 / 534 24 / 410

Best Available Copy

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR 2004/002597

Best Available Copy

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 621 058 B1 (GONG-SOO KIM) 16 September 2003 (16.09.2003) <i>abstract, column 3, line 18 to column 5, line 21, claims, figures 2-5.</i>	1, 2, 3, 4, 6, 10, 11, 13, 14, 15, 20
A	US 6 218 651 B1 (CHONG-MO CHUNG) 17 April 2001 (17.04.2001) <i>abstract, column 3, lines 30 to 50, claims, figures 4, 5.</i>	1
A	US 5 874 714 A (LIM GYU SIK) 23 February 1999 (23.02.1999) <i>abstract, claim 1, figure 3.</i>	1

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/KR 2004/002597

Patent document cited in search report	Publication date	Patent family member(s)			Publication date
EP A 747638		CN	A	1160155	1997-09-24
		US	A	5756974	1998-05-26
		EP	A	0747638	1996-12-11
		JP	A	9004857	1997-01-10
EP A 965797		DE	T	69908706T	2004-04-29
		DE	D	69908706D	2003-07-17
		KR	A	2000002061	2000-01-15
		JP	A	2000009320	2000-01-14
		CN	A	1239209	1999-12-22
		US	A	6018158	2000-01-25
GB A 2334871	1999-09-01	CN	A	1230663	1999-10-06
		FR	A	2773209	1999-07-02
US A 5874714	1999-02-23	KR	Y	136064Y	1999-03-20
		CN	A	1150229	1997-05-21
US B 6218651	2001-04-17	KR	A	2001047057	2001-06-15
		JP	A	2001153371	2001-06-08
		GB	A	2357413	2001-06-20
		CN	A	1297127	2001-05-30
US B 6621058	2003-09-16	KR	A	2003090900	2003-12-01
		JP	A	2003343855	2003-12-03
		CN	A	1459587	2003-12-03
		EP	A	1365630	2003-11-26

**Best Available Copy**